Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica – Tampa, FL	Job ID.:	680-87655-2
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Date(s) Collected:	02/19/2013
Reviewer:	Jane Lindsey	Date:	03/12/2013
Concurrence[1]:	Carol Lovett/Sarah Choyke	Date:	03/29/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.			✓		
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAH were not detected during the analysis of rinsate blank 022013-RB-Sieve (680-87709-57)	
12. Are equipment/rinsate blanks associated with every sample? If	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which	

[1] Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
no, note in DV report.				occurs once per week per the client. A rinsate blank (022013-RB-Sieve) was collected during the week of 02/18/2013. The rinsate blank was analyzed for PAHs under Test America Job ID 680-87709-3.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			• FM0161YYY-CSD (680-87655-21) is a field duplicate of FM0161YYY-CS (860-87655-20). Results for FM0161YYY-CS were reported under TestAmerica Job ID 680-87655-1. • FM0161GGGG-CSD (680-87655-33) is a field duplicate of FM0161GGGG-CS (680-87655-32).	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to **Attachment B**, Field Duplicate Evaluation.	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.	✓			• Initial Calibration: 02/22/2013, instrument BSMA5973 • ICV 02/22/2013 @ 12:48 • CCV: 02/26/2013 @ 15:03 • CCV: 03/01/2013 @ 09:42 • Initial Calibration: 02/22/2013, instrument BSMC5973 • ICV 02/22/2013 @ 14:06 • CCV 02/27/2013 @ 16:15	
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤15 mean %RSD with individual CCC %RSD ≤30 (≤50% for poor performers), OR r≥0.995, OR		✓		• ICV of 02/22/2013 @ 12:48, instrument BSMA5973: 2-Methylnaphthalene @ 22.1%D (Lab: ≤35, Project: ≤20). Positive bias is indicated by the	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
$r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): o If %RSD>15 (>50% for poor performers), or r <0.995, or r^2 <0.995, then J-flag positive results and UJ-flag non-detects o If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: $\leq$20%D ($\leq$50% for poor performers) and RF $\geq$0.050 ($\geq$0.010 for poor performers)): o If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects o If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds				ICV percent difference; therefore, J-flag detected 2-methylnaphthalene result in associated samples[2]. • ICV of 02/22/2013 @ 14:06, instrument BSMC5973: o Chrysene @ -20.6%D (Lab: $\leq$35, Project: $\leq$20). o Benzo(a)pyrene @ -21.7%D (Lab: $\leq$35, Project: $\leq$20). Positive bias is indicated by the ICV percent difference; therefore, J-flag detected chrysene and benzo(a)pyrene results in associated samples[3].	
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS only.	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓			• Prep Batch 134808: 680-87655-21 (FM0161YYY-CSD), MS/MSD • Prep Batch 134818: 680-87655-41 (Batch sample), MS/MSD	
24. Is the MS/MSD parent sample a project-specific sample?	✓			See above.	
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results		✓		FM0161YYY-CSD (680-87655-21): Benzo(a)pyrene @ 48%R (49-130). Qualification of the result is not required, because MS %R (77) met QC acceptance criteria.	

[2] 680-87655-21 through -36
[3] 680-87655-37 through -40

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result	✓				
27. Were surrogate recoveries within lab/project specifications? • If %R <10, then J-flag positive and R-flag non-detect associated sample results • If %R >UCL, then J-flag positive results • %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results	✓				
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.	✓				
29. Were lab comments included in report?	✓			Refer to **Attachment C** (Case Narrative)	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
Comments: The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review* (EPA, October 1999) and *USEPA CLP NFG for Low Concentration Organic Methods Data Review* (EPA, June 2001). Sample results have been qualified based on the results of the data review process (**Attachment D**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.					

DV Flag Definitions:

J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
R	The sample results are unusable. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
UJ	The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A

SAMPLE SUMMARY

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87655-2
SDG: 68087655-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-87655-21	FM0161YYY-CSD	Solid	02/19/13 10:00	02/21/13 09:20
680-87655-22	FM0161AV-GS	Solid	02/19/13 10:03	02/21/13 09:20
680-87655-23	FM0161AW-GS	Solid	02/19/13 10:27	02/21/13 09:20
680-87655-24	FM0161AX-GS	Solid	02/19/13 10:37	02/21/13 09:20
680-87655-25	FM0161ZZZ-CS	Solid	02/19/13 10:15	02/21/13 09:20
680-87655-26	FM0161AAAA-CS	Solid	02/19/13 10:16	02/21/13 09:20
680-87655-27	FM0161BBBB-CS	Solid	02/19/13 10:25	02/21/13 09:20
680-87655-28	FM0161CCCC-CS	Solid	02/19/13 10:28	02/21/13 09:20
680-87655-29	FM0161DDDD-CS	Solid	02/19/13 10:38	02/21/13 09:20
680-87655-30	FM0161EEEE-CS	Solid	02/19/13 10:40	02/21/13 09:20
680-87655-31	FM0161FFFF-CS	Solid	02/19/13 11:07	02/21/13 09:20
680-87655-32	FM0161GGGG-CS	Solid	02/19/13 11:10	02/21/13 09:20
680-87655-33	FM0161GGGG-CSD	Solid	02/19/13 11:12	02/21/13 09:20
680-87655-34	FM0161HHHH-CS	Solid	02/19/13 11:15	02/21/13 09:20
680-87655-35	CV0667A-CS-SP	Solid	02/19/13 11:00	02/21/13 09:20
680-87655-36	CV0667B-CS-SP	Solid	02/19/13 11:12	02/21/13 09:20
680-87655-37	CV0276A-CS-SP	Solid	02/19/13 11:40	02/21/13 09:20
680-87655-38	CV0276B-CS-SP	Solid	02/19/13 11:51	02/21/13 09:20
680-87655-39	FM0161IIII-CS	Solid	02/19/13 12:49	02/21/13 09:20
680-87655-40	FM0161JJJJ-CS	Solid	02/19/13 12:53	02/21/13 09:20

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	FM0161YYY-CS (680-87655-20)	RL	FM0161YYY-CSD (680-87655-21)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene		170	21	170	µg/kg	850	NA	21	340	None, absolute difference ≤ 2x Avg RL
Anthracene	66	36	39	35	µg/kg	177.5	NA	27	71	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	250	34	160	33	µg/kg	167.5	NA	**90**	**67**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(a)pyrene	170	44	84	43	µg/kg	217.5	NA	86	87	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	240	52	130	51	µg/kg	257.5	NA	**110**	**103**	**J/UJ-flag, absolute difference > 2x Avg RL**
Benzo(g,h,i)perylene	150	85	86	83	µg/kg	420	NA	64	168	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	79	34	51	33	µg/kg	167.5	NA	28	67	None, absolute difference ≤ 2x Avg RL
Chrysene	290	38	130	38	µg/kg	190	NA	**160**	**76**	**J/UJ-flag, absolute difference > 2x Avg RL**
Dibenzo(a,h)anthracene	42	85	67	83	µg/kg	420	NA	25	168	None, absolute difference ≤ 2x Avg RL
Fluoranthene	310	85	150	83	µg/kg	420	NA	160	168	None, absolute difference ≤ 2x Avg RL
Fluorene	21	85		83	µg/kg	420	NA	21	168	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	130	85	68	83	µg/kg	420	NA	62	168	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	53	170	63	170	µg/kg	850	NA	10	340	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	76	170	93	170	µg/kg	850	NA	17	340	None, absolute difference ≤ 2x Avg RL
Naphthalene	77	170	91	170	µg/kg	850	NA	14	340	None, absolute difference ≤ 2x Avg RL
Phenanthrene	250	34	190	33	µg/kg	167.5	**27**	NA	NA	None, RPD ≤ 50%
Pyrene	310	85	170	83	µg/kg	420	NA	140	168	None, absolute difference ≤ 2x Avg RL

Analyte	FM0161GGGG-CS (680-87655-32)	RL	FM0161GGGG-CSD (680-87655-33)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Anthracene	10	12	18	13	µg/kg	62.5	NA	8	25	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	42	11	54	13	µg/kg	60	NA	12	24	None, absolute difference ≤ 2x Avg RL
Benzo(a)pyrene	28	14	35	17	µg/kg	77.5	NA	7	31	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	42	17	44	19	µg/kg	90	NA	2	36	None, absolute difference ≤ 2x Avg RL
Benzo(g,h,i)perylene	33	28	26	32	µg/kg	150	NA	7	60	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	14	11	26	13	µg/kg	60	NA	12	24	None, absolute difference ≤ 2x Avg RL
Chrysene	49	13	48	14	µg/kg	67.5	NA	1	27	None, absolute difference ≤ 2x Avg RL
Dibenzo(a,h)anthracene	7.7	28	14	32	µg/kg	150	NA	6.3	60	None, absolute difference ≤ 2x Avg RL
Fluoranthene	33	28	73	32	µg/kg	150	NA	40	60	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	22	28	20	32	µg/kg	150	NA	2	60	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	38	56	19	64	µg/kg	300	NA	19	120	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	46	56	27	64	µg/kg	300	NA	19	120	None, absolute difference ≤ 2x Avg RL
Naphthalene	48	56	28	64	µg/kg	300	NA	20	120	None, absolute difference ≤ 2x Avg RL
Phenanthrene	59	11	75	13	µg/kg	60	NA	16	24	None, absolute difference ≤ 2x Avg RL
Pyrene	35	28	54	32	µg/kg	150	NA	19	60	None, absolute difference ≤ 2x Avg RL

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram
J - Estimated value
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference
UJ - Not detected and the limit is estimated

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

ATTACHMENT C

CASE NARRATIVE

Job ID: 680-87655-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87655-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 02/21/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4º C and 2.8º C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0161YYY-CSD (680-87655-21), FM0161AV-GS (680-87655-22), FM0161AW-GS (680-87655-23), FM0161AX-GS (680-87655-24), FM0161ZZZ-CS (680-87655-25), FM0161AAAA-CS (680-87655-26), FM0161BBBB-CS (680-87655-27), FM0161CCCC-CS (680-87655-28), FM0161DDDD-CS (680-87655-29), FM0161EEEE-CS (680-87655-30), FM0161FFFF-CS (680-87655-31), FM0161GGGG-CS (680-87655-32), FM0161GGGG-CSD (680-87655-33), FM0161HHHH-CS (680-87655-34), CV0667A-CS-SP (680-87655-35), CV0667B-CS-SP (680-87655-36), CV0276A-CS-SP (680-87655-37), CV0276B-CS-SP (680-87655-38), FM0161IIII-CS (680-87655-39) and FM0161JJJJ-CS (680-87655-40) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/25/2013 and analyzed on 02/26/2013, 02/27/2013 and 03/01/2013.

Samples FM0161YYY-CSD (680-87655-21)[4X], FM0161AV-GS (680-87655-22)[4X], FM0161HHHH-CS (680-87655-34)[4X], CV0667A-CS-SP (680-87655-35)[4X] and CV0667B-CS-SP (680-87655-36)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Benzo[a]pyrene recovered outside the recovery criteria low for the MSD of sample FM0161YYY-CSDMSD (680-87655-21) in batch 660-134852.

No other difficulties were encountered during the Semivolatile Organic Compounds by GCMS - Low Level analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87655-2
SDG: 68087655-2

Client Sample ID: FM0161YYY-CSD
Date Collected: 02/19/13 10:00
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-21
Matrix: Solid
Percent Solids: 95.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	420	U	420	83	ug/Kg	☼	02/25/13 11:29	02/26/13 17:59	4
Acenaphthylene	**21**	**J**	170	21	ug/Kg	☼	02/25/13 11:29	02/26/13 17:59	4
Anthracene	**39**		35	18	ug/Kg	☼	02/25/13 11:29	02/26/13 17:59	4
Benzo[a]anthracene	**160**	J	33	16	ug/Kg	☼	02/25/13 11:29	02/26/13 17:59	4
Benzo[a]pyrene	**84**	F	43	22	ug/Kg	☼	02/25/13 11:29	02/26/13 17:59	4
Benzo[b]fluoranthene	**130**	J	51	25	ug/Kg	☼	02/25/13 11:29	02/26/13 17:59	4
Benzo[g,h,i]perylene	**86**		83	18	ug/Kg	☼	02/25/13 11:29	02/26/13 17:59	4
Benzo[k]fluoranthene	**51**		33	15	ug/Kg	☼	02/25/13 11:29	02/26/13 17:59	4
Chrysene	**130**	J	38	19	ug/Kg	☼	02/25/13 11:29	02/26/13 17:59	4
Dibenz(a,h)anthracene	**67**	J	83	17	ug/Kg	☼	02/25/13 11:29	02/26/13 17:59	4
Fluoranthene	**150**		83	17	ug/Kg	☼	02/25/13 11:29	02/26/13 17:59	4
Fluorene	83	U	83	17	ug/Kg	☼	02/25/13 11:29	02/26/13 17:59	4
Indeno[1,2,3-cd]pyrene	**68**	J	83	30	ug/Kg	☼	02/25/13 11:29	02/26/13 17:59	4
1-Methylnaphthalene	**63**	J	170	18	ug/Kg	☼	02/25/13 11:29	02/26/13 17:59	4
2-Methylnaphthalene	**93**	J	170	30	ug/Kg	☼	02/25/13 11:29	02/26/13 17:59	4
Naphthalene	**91**	J	170	18	ug/Kg	☼	02/25/13 11:29	02/26/13 17:59	4
Phenanthrene	**190**		33	16	ug/Kg	☼	02/25/13 11:29	02/26/13 17:59	4
Pyrene	**170**		83	15	ug/Kg	☼	02/25/13 11:29	02/26/13 17:59	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*30 - 130*	*02/25/13 11:29*	*02/26/13 17:59*	*4*

Client Sample ID: FM0161AV-GS
Date Collected: 02/19/13 10:03
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-22
Matrix: Solid
Percent Solids: 68.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**340**		150	29	ug/Kg	☼	02/25/13 11:29	02/26/13 18:45	1
Acenaphthylene	**20**	**J**	58	7.3	ug/Kg	☼	02/25/13 11:29	02/26/13 18:45	1
Anthracene	**1100**		12	6.1	ug/Kg	☼	02/25/13 11:29	02/26/13 18:45	1
Benzo[a]anthracene	**3800**		12	5.7	ug/Kg	☼	02/25/13 11:29	02/26/13 18:45	1
Benzo[a]pyrene	**2800**		15	7.5	ug/Kg	☼	02/25/13 11:29	02/26/13 18:45	1
Benzo[b]fluoranthene	**4800**		18	8.9	ug/Kg	☼	02/25/13 11:29	02/26/13 18:45	1
Benzo[g,h,i]perylene	**1100**		29	6.4	ug/Kg	☼	02/25/13 11:29	02/26/13 18:45	1
Benzo[k]fluoranthene	**1100**		12	5.2	ug/Kg	☼	02/25/13 11:29	02/26/13 18:45	1
Chrysene	**3600**		13	6.5	ug/Kg	☼	02/25/13 11:29	02/26/13 18:45	1
Dibenz(a,h)anthracene	**550**		29	5.9	ug/Kg	☼	02/25/13 11:29	02/26/13 18:45	1
Fluorene	**310**		29	5.9	ug/Kg	☼	02/25/13 11:29	02/26/13 18:45	1
Indeno[1,2,3-cd]pyrene	**1300**		29	10	ug/Kg	☼	02/25/13 11:29	02/26/13 18:45	1
1-Methylnaphthalene	**98**		58	6.4	ug/Kg	☼	02/25/13 11:29	02/26/13 18:45	1
2-Methylnaphthalene	**110**	J	58	10	ug/Kg	☼	02/25/13 11:29	02/26/13 18:45	1
Naphthalene	**100**		58	6.4	ug/Kg	☼	02/25/13 11:29	02/26/13 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*30 - 130*	*02/25/13 11:29*	*02/26/13 18:45*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**6000**		120	23	ug/Kg	☼	02/25/13 11:29	03/01/13 10:26	4

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample ID: FM0161AV-GS
Date Collected: 02/19/13 10:03
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-22
Matrix: Solid
Percent Solids: 68.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	**3500**		46	23	ug/Kg	☼	02/25/13 11:29	03/01/13 10:26	4
Pyrene	**5400**		120	21	ug/Kg	☼	02/25/13 11:29	03/01/13 10:26	4

Client Sample ID: FM0161AW-GS
Date Collected: 02/19/13 10:27
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-23
Matrix: Solid
Percent Solids: 64.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	☼	02/25/13 11:29	02/26/13 19:00	1
Acenaphthylene	**16**	**J**	60	7.5	ug/Kg	☼	02/25/13 11:29	02/26/13 19:00	1
Anthracene	**28**		13	6.3	ug/Kg	☼	02/25/13 11:29	02/26/13 19:00	1
Benzo[a]anthracene	**110**		12	5.9	ug/Kg	☼	02/25/13 11:29	02/26/13 19:00	1
Benzo[a]pyrene	**83**		16	7.8	ug/Kg	☼	02/25/13 11:29	02/26/13 19:00	1
Benzo[b]fluoranthene	**130**		18	9.2	ug/Kg	☼	02/25/13 11:29	02/26/13 19:00	1
Benzo[g,h,i]perylene	**69**		30	6.6	ug/Kg	☼	02/25/13 11:29	02/26/13 19:00	1
Benzo[k]fluoranthene	**39**		12	5.4	ug/Kg	☼	02/25/13 11:29	02/26/13 19:00	1
Chrysene	**130**		14	6.8	ug/Kg	☼	02/25/13 11:29	02/26/13 19:00	1
Dibenz(a,h)anthracene	**26**	**J**	30	6.2	ug/Kg	☼	02/25/13 11:29	02/26/13 19:00	1
Fluoranthene	**160**		30	6.0	ug/Kg	☼	02/25/13 11:29	02/26/13 19:00	1
Fluorene	**8.0**	**J**	30	6.2	ug/Kg	☼	02/25/13 11:29	02/26/13 19:00	1
Indeno[1,2,3-cd]pyrene	**54**		30	11	ug/Kg	☼	02/25/13 11:29	02/26/13 19:00	1
1-Methylnaphthalene	**28**	**J**	60	6.6	ug/Kg	☼	02/25/13 11:29	02/26/13 19:00	1
2-Methylnaphthalene	**39**	**J**	60	11	ug/Kg	☼	02/25/13 11:29	02/26/13 19:00	1
Naphthalene	**43**	**J**	60	6.6	ug/Kg	☼	02/25/13 11:29	02/26/13 19:00	1
Phenanthrene	**110**		12	5.9	ug/Kg	☼	02/25/13 11:29	02/26/13 19:00	1
Pyrene	**160**		30	5.6	ug/Kg	☼	02/25/13 11:29	02/26/13 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*30 - 130*	*02/25/13 11:29*	*02/26/13 19:00*	*1*

Client Sample ID: FM0161AX-GS
Date Collected: 02/19/13 10:37
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-24
Matrix: Solid
Percent Solids: 76.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	02/25/13 11:29	02/26/13 19:15	1
Acenaphthylene	51	U	51	6.4	ug/Kg	☼	02/25/13 11:29	02/26/13 19:15	1
Anthracene	**62**		11	5.4	ug/Kg	☼	02/25/13 11:29	02/26/13 19:15	1
Benzo[a]anthracene	**270**		10	5.0	ug/Kg	☼	02/25/13 11:29	02/26/13 19:15	1
Benzo[a]pyrene	**130**		13	6.6	ug/Kg	☼	02/25/13 11:29	02/26/13 19:15	1
Benzo[b]fluoranthene	**190**		16	7.8	ug/Kg	☼	02/25/13 11:29	02/26/13 19:15	1
Benzo[g,h,i]perylene	**73**		26	5.6	ug/Kg	☼	02/25/13 11:29	02/26/13 19:15	1
Benzo[k]fluoranthene	**87**		10	4.6	ug/Kg	☼	02/25/13 11:29	02/26/13 19:15	1
Chrysene	**260**		11	5.7	ug/Kg	☼	02/25/13 11:29	02/26/13 19:15	1
Dibenz(a,h)anthracene	**32**		26	5.2	ug/Kg	☼	02/25/13 11:29	02/26/13 19:15	1
Fluoranthene	**530**		26	5.1	ug/Kg	☼	02/25/13 11:29	02/26/13 19:15	1
Fluorene	**16**	**J**	26	5.2	ug/Kg	☼	02/25/13 11:29	02/26/13 19:15	1
Indeno[1,2,3-cd]pyrene	**67**		26	9.1	ug/Kg	☼	02/25/13 11:29	02/26/13 19:15	1

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87655-2
SDG: 68087655-2

Client Sample ID: FM0161AX-GS

Lab Sample ID: 680-87655-24
Matrix: Solid
Percent Solids: 76.6

Date Collected: 02/19/13 10:37
Date Received: 02/21/13 09:20

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	20	J	51	5.6	ug/Kg	☼	02/25/13 11:29	02/26/13 19:15	1
2-Methylnaphthalene	41	J	51	9.1	ug/Kg	☼	02/25/13 11:29	02/26/13 19:15	1
Naphthalene	23	J	51	5.6	ug/Kg	☼	02/25/13 11:29	02/26/13 19:15	1
Phenanthrene	240		10	5.0	ug/Kg	☼	02/25/13 11:29	02/26/13 19:15	1
Pyrene	500		26	4.7	ug/Kg	☼	02/25/13 11:29	02/26/13 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*30 - 130*	*02/25/13 11:29*	*02/26/13 19:15*	*1*

Client Sample ID: FM0161ZZZ-CS

Lab Sample ID: 680-87655-25
Matrix: Solid
Percent Solids: 74.7

Date Collected: 02/19/13 10:15
Date Received: 02/21/13 09:20

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	02/25/13 11:29	02/26/13 19:30	1
Acenaphthylene	9.6	J	53	6.6	ug/Kg	☼	02/25/13 11:29	02/26/13 19:30	1
Anthracene	17		11	5.5	ug/Kg	☼	02/25/13 11:29	02/26/13 19:30	1
Benzo[a]anthracene	74		11	5.1	ug/Kg	☼	02/25/13 11:29	02/26/13 19:30	1
Benzo[a]pyrene	43		14	6.8	ug/Kg	☼	02/25/13 11:29	02/26/13 19:30	1
Benzo[b]fluoranthene	88		16	8.0	ug/Kg	☼	02/25/13 11:29	02/26/13 19:30	1
Benzo[g,h,i]perylene	44		26	5.8	ug/Kg	☼	02/25/13 11:29	02/26/13 19:30	1
Benzo[k]fluoranthene	16		11	4.7	ug/Kg	☼	02/25/13 11:29	02/26/13 19:30	1
Chrysene	90		12	5.9	ug/Kg	☼	02/25/13 11:29	02/26/13 19:30	1
Dibenz(a,h)anthracene	18	J	26	5.4	ug/Kg	☼	02/25/13 11:29	02/26/13 19:30	1
Fluoranthene	90		26	5.3	ug/Kg	☼	02/25/13 11:29	02/26/13 19:30	1
Fluorene	7.6	J	26	5.4	ug/Kg	☼	02/25/13 11:29	02/26/13 19:30	1
Indeno[1,2,3-cd]pyrene	40		26	9.3	ug/Kg	☼	02/25/13 11:29	02/26/13 19:30	1
1-Methylnaphthalene	43	J	53	5.8	ug/Kg	☼	02/25/13 11:29	02/26/13 19:30	1
2-Methylnaphthalene	58	J	53	9.3	ug/Kg	☼	02/25/13 11:29	02/26/13 19:30	1
Naphthalene	58		53	5.8	ug/Kg	☼	02/25/13 11:29	02/26/13 19:30	1
Phenanthrene	92		11	5.1	ug/Kg	☼	02/25/13 11:29	02/26/13 19:30	1
Pyrene	82		26	4.9	ug/Kg	☼	02/25/13 11:29	02/26/13 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*30 - 130*	*02/25/13 11:29*	*02/26/13 19:30*	*1*

Client Sample ID: FM0161AAAA-CS

Lab Sample ID: 680-87655-26
Matrix: Solid
Percent Solids: 73.5

Date Collected: 02/19/13 10:16
Date Received: 02/21/13 09:20

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	02/25/13 11:29	02/26/13 19:45	1
Acenaphthylene	15	J	54	6.7	ug/Kg	☼	02/25/13 11:29	02/26/13 19:45	1
Anthracene	34		11	5.6	ug/Kg	☼	02/25/13 11:29	02/26/13 19:45	1
Benzo[a]anthracene	96		11	5.2	ug/Kg	☼	02/25/13 11:29	02/26/13 19:45	1
Benzo[a]pyrene	65		14	7.0	ug/Kg	☼	02/25/13 11:29	02/26/13 19:45	1
Benzo[b]fluoranthene	110		16	8.2	ug/Kg	☼	02/25/13 11:29	02/26/13 19:45	1
Benzo[g,h,i]perylene	61		27	5.9	ug/Kg	☼	02/25/13 11:29	02/26/13 19:45	1

Client Sample ID: FM0161AAAA-CS
Date Collected: 02/19/13 10:16
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-26
Matrix: Solid
Percent Solids: 73.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	49		11	4.8	ug/Kg	☼	02/25/13 11:29	02/26/13 19:45	1
Chrysene	130		12	6.0	ug/Kg	☼	02/25/13 11:29	02/26/13 19:45	1
Dibenz(a,h)anthracene	25	J	27	5.5	ug/Kg	☼	02/25/13 11:29	02/26/13 19:45	1
Fluoranthene	100		27	5.4	ug/Kg	☼	02/25/13 11:29	02/26/13 19:45	1
Fluorene	13	J	27	5.5	ug/Kg	☼	02/25/13 11:29	02/26/13 19:45	1
Indeno[1,2,3-cd]pyrene	64		27	9.5	ug/Kg	☼	02/25/13 11:29	02/26/13 19:45	1
1-Methylnaphthalene	76		54	5.9	ug/Kg	☼	02/25/13 11:29	02/26/13 19:45	1
2-Methylnaphthalene	100	J	54	9.5	ug/Kg	☼	02/25/13 11:29	02/26/13 19:45	1
Naphthalene	99		54	5.9	ug/Kg	☼	02/25/13 11:29	02/26/13 19:45	1
Phenanthrene	140		11	5.2	ug/Kg	☼	02/25/13 11:29	02/26/13 19:45	1
Pyrene	98		27	5.0	ug/Kg	☼	02/25/13 11:29	02/26/13 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*30 - 130*	*02/25/13 11:29*	*02/26/13 19:45*	*1*

Client Sample ID: FM0161BBBB-CS
Date Collected: 02/19/13 10:25
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-27
Matrix: Solid
Percent Solids: 72.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	☼	02/25/13 11:29	02/26/13 20:01	1
Acenaphthylene	7.7	J	54	6.8	ug/Kg	☼	02/25/13 11:29	02/26/13 20:01	1
Anthracene	19		11	5.7	ug/Kg	☼	02/25/13 11:29	02/26/13 20:01	1
Benzo[a]anthracene	68		11	5.3	ug/Kg	☼	02/25/13 11:29	02/26/13 20:01	1
Benzo[a]pyrene	38		14	7.1	ug/Kg	☼	02/25/13 11:29	02/26/13 20:01	1
Benzo[b]fluoranthene	59		17	8.3	ug/Kg	☼	02/25/13 11:29	02/26/13 20:01	1
Benzo[g,h,i]perylene	36		27	6.0	ug/Kg	☼	02/25/13 11:29	02/26/13 20:01	1
Benzo[k]fluoranthene	31		11	4.9	ug/Kg	☼	02/25/13 11:29	02/26/13 20:01	1
Chrysene	68		12	6.1	ug/Kg	☼	02/25/13 11:29	02/26/13 20:01	1
Dibenz(a,h)anthracene	16	J	27	5.6	ug/Kg	☼	02/25/13 11:29	02/26/13 20:01	1
Fluoranthene	71		27	5.4	ug/Kg	☼	02/25/13 11:29	02/26/13 20:01	1
Fluorene	8.9	J	27	5.6	ug/Kg	☼	02/25/13 11:29	02/26/13 20:01	1
Indeno[1,2,3-cd]pyrene	27		27	9.7	ug/Kg	☼	02/25/13 11:29	02/26/13 20:01	1
1-Methylnaphthalene	34	J	54	6.0	ug/Kg	☼	02/25/13 11:29	02/26/13 20:01	1
2-Methylnaphthalene	42	J	54	9.7	ug/Kg	☼	02/25/13 11:29	02/26/13 20:01	1
Naphthalene	40	J	54	6.0	ug/Kg	☼	02/25/13 11:29	02/26/13 20:01	1
Phenanthrene	80		11	5.3	ug/Kg	☼	02/25/13 11:29	02/26/13 20:01	1
Pyrene	75		27	5.0	ug/Kg	☼	02/25/13 11:29	02/26/13 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*02/25/13 11:29*	*02/26/13 20:01*	*1*

Client Sample ID: FM0161CCCC-CS
Date Collected: 02/19/13 10:28
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-28
Matrix: Solid
Percent Solids: 72.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	☼	02/25/13 11:29	02/26/13 20:16	1

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87655-2
SDG: 68087655-2

Client Sample ID: FM0161CCCC-CS
Date Collected: 02/19/13 10:28
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-28
Matrix: Solid
Percent Solids: 72.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	8.5	J	55	6.9	ug/Kg	☼	02/25/13 11:29	02/26/13 20:16	1
Anthracene	15		12	5.8	ug/Kg	☼	02/25/13 11:29	02/26/13 20:16	1
Benzo[a]anthracene	61		11	5.4	ug/Kg	☼	02/25/13 11:29	02/26/13 20:16	1
Benzo[a]pyrene	34		14	7.1	ug/Kg	☼	02/25/13 11:29	02/26/13 20:16	1
Benzo[b]fluoranthene	53		17	8.4	ug/Kg	☼	02/25/13 11:29	02/26/13 20:16	1
Benzo[g,h,i]perylene	31		27	6.0	ug/Kg	☼	02/25/13 11:29	02/26/13 20:16	1
Benzo[k]fluoranthene	35		11	4.9	ug/Kg	☼	02/25/13 11:29	02/26/13 20:16	1
Chrysene	69		12	6.2	ug/Kg	☼	02/25/13 11:29	02/26/13 20:16	1
Dibenz(a,h)anthracene	12	J	27	5.6	ug/Kg	☼	02/25/13 11:29	02/26/13 20:16	1
Fluoranthene	59		27	5.5	ug/Kg	☼	02/25/13 11:29	02/26/13 20:16	1
Fluorene	8.3	J	27	5.6	ug/Kg	☼	02/25/13 11:29	02/26/13 20:16	1
Indeno[1,2,3-cd]pyrene	32		27	9.8	ug/Kg	☼	02/25/13 11:29	02/26/13 20:16	1
1-Methylnaphthalene	36	J	55	6.0	ug/Kg	☼	02/25/13 11:29	02/26/13 20:16	1
2-Methylnaphthalene	52	J	55	9.8	ug/Kg	☼	02/25/13 11:29	02/26/13 20:16	1
Naphthalene	58		55	6.0	ug/Kg	☼	02/25/13 11:29	02/26/13 20:16	1
Phenanthrene	79		11	5.4	ug/Kg	☼	02/25/13 11:29	02/26/13 20:16	1
Pyrene	61		27	5.1	ug/Kg	☼	02/25/13 11:29	02/26/13 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*30 - 130*	*02/25/13 11:29*	*02/26/13 20:16*	*1*

Client Sample ID: FM0161DDDD-CS
Date Collected: 02/19/13 10:38
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-29
Matrix: Solid
Percent Solids: 73.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	☼	02/25/13 11:29	02/26/13 20:31	1
Acenaphthylene	9.5	J	54	6.8	ug/Kg	☼	02/25/13 11:29	02/26/13 20:31	1
Anthracene	18		11	5.7	ug/Kg	☼	02/25/13 11:29	02/26/13 20:31	1
Benzo[a]anthracene	73		11	5.3	ug/Kg	☼	02/25/13 11:29	02/26/13 20:31	1
Benzo[a]pyrene	46		14	7.1	ug/Kg	☼	02/25/13 11:29	02/26/13 20:31	1
Benzo[b]fluoranthene	79		17	8.3	ug/Kg	☼	02/25/13 11:29	02/26/13 20:31	1
Benzo[g,h,i]perylene	39		27	6.0	ug/Kg	☼	02/25/13 11:29	02/26/13 20:31	1
Benzo[k]fluoranthene	25		11	4.9	ug/Kg	☼	02/25/13 11:29	02/26/13 20:31	1
Chrysene	95		12	6.1	ug/Kg	☼	02/25/13 11:29	02/26/13 20:31	1
Dibenz(a,h)anthracene	19	J	27	5.6	ug/Kg	☼	02/25/13 11:29	02/26/13 20:31	1
Fluoranthene	72		27	5.4	ug/Kg	☼	02/25/13 11:29	02/26/13 20:31	1
Fluorene	7.8	J	27	5.6	ug/Kg	☼	02/25/13 11:29	02/26/13 20:31	1
Indeno[1,2,3-cd]pyrene	36		27	9.6	ug/Kg	☼	02/25/13 11:29	02/26/13 20:31	1
1-Methylnaphthalene	43	J	54	6.0	ug/Kg	☼	02/25/13 11:29	02/26/13 20:31	1
2-Methylnaphthalene	55	J	54	9.6	ug/Kg	☼	02/25/13 11:29	02/26/13 20:31	1
Naphthalene	53	J	54	6.0	ug/Kg	☼	02/25/13 11:29	02/26/13 20:31	1
Phenanthrene	88		11	5.3	ug/Kg	☼	02/25/13 11:29	02/26/13 20:31	1
Pyrene	75		27	5.0	ug/Kg	☼	02/25/13 11:29	02/26/13 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*30 - 130*	*02/25/13 11:29*	*02/26/13 20:31*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87655-2
SDG: 68087655-2

Client Sample ID: FM0161EEEE-CS
Date Collected: 02/19/13 10:40
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-30
Matrix: Solid
Percent Solids: 74.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	02/25/13 11:29	02/26/13 20:45	1
Acenaphthylene	53	U	53	6.7	ug/Kg	☼	02/25/13 11:29	02/26/13 20:45	1
Anthracene	**15**		11	5.6	ug/Kg	☼	02/25/13 11:29	02/26/13 20:45	1
Benzo[a]anthracene	**62**		11	5.2	ug/Kg	☼	02/25/13 11:29	02/26/13 20:45	1
Benzo[a]pyrene	**37**		14	6.9	ug/Kg	☼	02/25/13 11:29	02/26/13 20:45	1
Benzo[b]fluoranthene	**67**		16	8.1	ug/Kg	☼	02/25/13 11:29	02/26/13 20:45	1
Benzo[g,h,i]perylene	**33**		27	5.9	ug/Kg	☼	02/25/13 11:29	02/26/13 20:45	1
Benzo[k]fluoranthene	**15**		11	4.8	ug/Kg	☼	02/25/13 11:29	02/26/13 20:45	1
Chrysene	**58**		12	6.0	ug/Kg	☼	02/25/13 11:29	02/26/13 20:45	1
Dibenz(a,h)anthracene	**13**	**J**	27	5.5	ug/Kg	☼	02/25/13 11:29	02/26/13 20:45	1
Fluoranthene	**59**		27	5.3	ug/Kg	☼	02/25/13 11:29	02/26/13 20:45	1
Fluorene	**6.4**	**J**	27	5.5	ug/Kg	☼	02/25/13 11:29	02/26/13 20:45	1
Indeno[1,2,3-cd]pyrene	**32**		27	9.5	ug/Kg	☼	02/25/13 11:29	02/26/13 20:45	1
1-Methylnaphthalene	**31**	**J**	53	5.9	ug/Kg	☼	02/25/13 11:29	02/26/13 20:45	1
2-Methylnaphthalene	**47**	**J**	53	9.5	ug/Kg	☼	02/25/13 11:29	02/26/13 20:45	1
Naphthalene	**50**	**J**	53	5.9	ug/Kg	☼	02/25/13 11:29	02/26/13 20:45	1
Phenanthrene	**72**		11	5.2	ug/Kg	☼	02/25/13 11:29	02/26/13 20:45	1
Pyrene	**51**		27	4.9	ug/Kg	☼	02/25/13 11:29	02/26/13 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*30 - 130*	*02/25/13 11:29*	*02/26/13 20:45*	*1*

Client Sample ID: FM0161FFFF-CS
Date Collected: 02/19/13 11:07
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-31
Matrix: Solid
Percent Solids: 75.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	02/25/13 11:29	02/26/13 21:01	1
Acenaphthylene	**13**	**J**	53	6.6	ug/Kg	☼	02/25/13 11:29	02/26/13 21:01	1
Anthracene	**26**		11	5.6	ug/Kg	☼	02/25/13 11:29	02/26/13 21:01	1
Benzo[a]anthracene	**89**		11	5.2	ug/Kg	☼	02/25/13 11:29	02/26/13 21:01	1
Benzo[a]pyrene	**64**		14	6.9	ug/Kg	☼	02/25/13 11:29	02/26/13 21:01	1
Benzo[b]fluoranthene	**100**		16	8.1	ug/Kg	☼	02/25/13 11:29	02/26/13 21:01	1
Benzo[g,h,i]perylene	**52**		26	5.8	ug/Kg	☼	02/25/13 11:29	02/26/13 21:01	1
Benzo[k]fluoranthene	**36**		11	4.8	ug/Kg	☼	02/25/13 11:29	02/26/13 21:01	1
Chrysene	**120**		12	6.0	ug/Kg	☼	02/25/13 11:29	02/26/13 21:01	1
Dibenz(a,h)anthracene	**18**	**J**	26	5.4	ug/Kg	☼	02/25/13 11:29	02/26/13 21:01	1
Fluoranthene	**120**		26	5.3	ug/Kg	☼	02/25/13 11:29	02/26/13 21:01	1
Fluorene	**9.3**	**J**	26	5.4	ug/Kg	☼	02/25/13 11:29	02/26/13 21:01	1
Indeno[1,2,3-cd]pyrene	**45**		26	9.4	ug/Kg	☼	02/25/13 11:29	02/26/13 21:01	1
1-Methylnaphthalene	**49**	**J**	53	5.8	ug/Kg	☼	02/25/13 11:29	02/26/13 21:01	1
2-Methylnaphthalene	**75**	**J**	53	9.4	ug/Kg	☼	02/25/13 11:29	02/26/13 21:01	1
Naphthalene	**61**		53	5.8	ug/Kg	☼	02/25/13 11:29	02/26/13 21:01	1
Phenanthrene	**130**		11	5.2	ug/Kg	☼	02/25/13 11:29	02/26/13 21:01	1
Pyrene	**110**		26	4.9	ug/Kg	☼	02/25/13 11:29	02/26/13 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*30 - 130*	*02/25/13 11:29*	*02/26/13 21:01*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87655-2
SDG: 68087655-2

Client Sample ID: FM0161GGGG-CS
Date Collected: 02/19/13 11:10
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-32
Matrix: Solid
Percent Solids: 72.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	02/25/13 11:29	02/26/13 21:15	1
Acenaphthylene	56	U	56	7.0	ug/Kg	☼	02/25/13 11:29	02/26/13 21:15	1
Anthracene	**10**	**J**	12	5.8	ug/Kg	☼	02/25/13 11:29	02/26/13 21:15	1
Benzo[a]anthracene	**42**		11	5.4	ug/Kg	☼	02/25/13 11:29	02/26/13 21:15	1
Benzo[a]pyrene	**28**		14	7.2	ug/Kg	☼	02/25/13 11:29	02/26/13 21:15	1
Benzo[b]fluoranthene	**42**		17	8.5	ug/Kg	☼	02/25/13 11:29	02/26/13 21:15	1
Benzo[g,h,i]perylene	**33**		28	6.1	ug/Kg	☼	02/25/13 11:29	02/26/13 21:15	1
Benzo[k]fluoranthene	**14**		11	5.0	ug/Kg	☼	02/25/13 11:29	02/26/13 21:15	1
Chrysene	**49**		13	6.3	ug/Kg	☼	02/25/13 11:29	02/26/13 21:15	1
Dibenz(a,h)anthracene	**7.7**	**J**	28	5.7	ug/Kg	☼	02/25/13 11:29	02/26/13 21:15	1
Fluoranthene	**33**		28	5.6	ug/Kg	☼	02/25/13 11:29	02/26/13 21:15	1
Fluorene	28	U	28	5.7	ug/Kg	☼	02/25/13 11:29	02/26/13 21:15	1
Indeno[1,2,3-cd]pyrene	**22**	**J**	28	9.9	ug/Kg	☼	02/25/13 11:29	02/26/13 21:15	1
1-Methylnaphthalene	**38**	**J**	56	6.1	ug/Kg	☼	02/25/13 11:29	02/26/13 21:15	1
2-Methylnaphthalene	**46**	**J**	56	9.9	ug/Kg	☼	02/25/13 11:29	02/26/13 21:15	1
Naphthalene	**48**	**J**	56	6.1	ug/Kg	☼	02/25/13 11:29	02/26/13 21:15	1
Phenanthrene	**59**		11	5.4	ug/Kg	☼	02/25/13 11:29	02/26/13 21:15	1
Pyrene	**35**		28	5.1	ug/Kg	☼	02/25/13 11:29	02/26/13 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*02/25/13 11:29*	*02/26/13 21:15*	*1*

Client Sample ID: FM0161GGGG-CSD
Date Collected: 02/19/13 11:12
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-33
Matrix: Solid
Percent Solids: 61.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	☼	02/25/13 11:29	02/26/13 21:31	1
Acenaphthylene	64	U	64	8.0	ug/Kg	☼	02/25/13 11:29	02/26/13 21:31	1
Anthracene	**18**		13	6.7	ug/Kg	☼	02/25/13 11:29	02/26/13 21:31	1
Benzo[a]anthracene	**54**		13	6.2	ug/Kg	☼	02/25/13 11:29	02/26/13 21:31	1
Benzo[a]pyrene	**35**		17	8.3	ug/Kg	☼	02/25/13 11:29	02/26/13 21:31	1
Benzo[b]fluoranthene	**44**		19	9.7	ug/Kg	☼	02/25/13 11:29	02/26/13 21:31	1
Benzo[g,h,i]perylene	**26**	**J**	32	7.0	ug/Kg	☼	02/25/13 11:29	02/26/13 21:31	1
Benzo[k]fluoranthene	**26**		13	5.7	ug/Kg	☼	02/25/13 11:29	02/26/13 21:31	1
Chrysene	**48**		14	7.2	ug/Kg	☼	02/25/13 11:29	02/26/13 21:31	1
Dibenz(a,h)anthracene	**14**	**J**	32	6.5	ug/Kg	☼	02/25/13 11:29	02/26/13 21:31	1
Fluoranthene	**73**		32	6.4	ug/Kg	☼	02/25/13 11:29	02/26/13 21:31	1
Fluorene	32	U	32	6.5	ug/Kg	☼	02/25/13 11:29	02/26/13 21:31	1
Indeno[1,2,3-cd]pyrene	**20**	**J**	32	11	ug/Kg	☼	02/25/13 11:29	02/26/13 21:31	1
1-Methylnaphthalene	**19**	**J**	64	7.0	ug/Kg	☼	02/25/13 11:29	02/26/13 21:31	1
2-Methylnaphthalene	**27**	**J**	64	11	ug/Kg	☼	02/25/13 11:29	02/26/13 21:31	1
Naphthalene	**28**	**J**	64	7.0	ug/Kg	☼	02/25/13 11:29	02/26/13 21:31	1
Phenanthrene	**75**		13	6.2	ug/Kg	☼	02/25/13 11:29	02/26/13 21:31	1
Pyrene	**54**		32	5.9	ug/Kg	☼	02/25/13 11:29	02/26/13 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*30 - 130*	*02/25/13 11:29*	*02/26/13 21:31*	*1*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87655-2
SDG: 68087655-2

Client Sample ID: FM0161HHHH-CS
Date Collected: 02/19/13 11:15
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-34
Matrix: Solid
Percent Solids: 75.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	02/25/13 11:29	02/26/13 21:45	4
Acenaphthylene	210	U	210	27	ug/Kg	☼	02/25/13 11:29	02/26/13 21:45	4
Anthracene	45	U	45	22	ug/Kg	☼	02/25/13 11:29	02/26/13 21:45	4
Benzo[a]anthracene	**120**		42	21	ug/Kg	☼	02/25/13 11:29	02/26/13 21:45	4
Benzo[a]pyrene	**55**		55	28	ug/Kg	☼	02/25/13 11:29	02/26/13 21:45	4
Benzo[b]fluoranthene	**80**		65	32	ug/Kg	☼	02/25/13 11:29	02/26/13 21:45	4
Benzo[g,h,i]perylene	**60**	**J**	110	23	ug/Kg	☼	02/25/13 11:29	02/26/13 21:45	4
Benzo[k]fluoranthene	**41**	**J**	42	19	ug/Kg	☼	02/25/13 11:29	02/26/13 21:45	4
Chrysene	**67**		48	24	ug/Kg	☼	02/25/13 11:29	02/26/13 21:45	4
Dibenz(a,h)anthracene	**27**	**J**	110	22	ug/Kg	☼	02/25/13 11:29	02/26/13 21:45	4
Fluoranthene	**67**	**J**	110	21	ug/Kg	☼	02/25/13 11:29	02/26/13 21:45	4
Fluorene	110	U	110	22	ug/Kg	☼	02/25/13 11:29	02/26/13 21:45	4
Indeno[1,2,3-cd]pyrene	**45**	**J**	110	38	ug/Kg	☼	02/25/13 11:29	02/26/13 21:45	4
1-Methylnaphthalene	**41**	**J**	210	23	ug/Kg	☼	02/25/13 11:29	02/26/13 21:45	4
2-Methylnaphthalene	**54**	**J**	210	38	ug/Kg	☼	02/25/13 11:29	02/26/13 21:45	4
Naphthalene	**46**	**J**	210	23	ug/Kg	☼	02/25/13 11:29	02/26/13 21:45	4
Phenanthrene	**77**		42	21	ug/Kg	☼	02/25/13 11:29	02/26/13 21:45	4
Pyrene	**70**	**J**	110	20	ug/Kg	☼	02/25/13 11:29	02/26/13 21:45	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*30 - 130*	*02/25/13 11:29*	*02/26/13 21:45*	*4*

Client Sample ID: CV0667A-CS-SP
Date Collected: 02/19/13 11:00
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-35
Matrix: Solid
Percent Solids: 76.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	02/25/13 11:29	02/26/13 22:01	4
Acenaphthylene	**84**	**J**	200	25	ug/Kg	☼	02/25/13 11:29	02/26/13 22:01	4
Anthracene	**130**		43	21	ug/Kg	☼	02/25/13 11:29	02/26/13 22:01	4
Benzo[a]anthracene	**470**		41	20	ug/Kg	☼	02/25/13 11:29	02/26/13 22:01	4
Benzo[a]pyrene	**370**		53	27	ug/Kg	☼	02/25/13 11:29	02/26/13 22:01	4
Benzo[b]fluoranthene	**760**		62	31	ug/Kg	☼	02/25/13 11:29	02/26/13 22:01	4
Benzo[g,h,i]perylene	**360**		100	22	ug/Kg	☼	02/25/13 11:29	02/26/13 22:01	4
Benzo[k]fluoranthene	**230**		41	18	ug/Kg	☼	02/25/13 11:29	02/26/13 22:01	4
Chrysene	**500**		46	23	ug/Kg	☼	02/25/13 11:29	02/26/13 22:01	4
Dibenz(a,h)anthracene	**160**		100	21	ug/Kg	☼	02/25/13 11:29	02/26/13 22:01	4
Fluoranthene	**390**		100	20	ug/Kg	☼	02/25/13 11:29	02/26/13 22:01	4
Fluorene	**30**	**J**	100	21	ug/Kg	☼	02/25/13 11:29	02/26/13 22:01	4
Indeno[1,2,3-cd]pyrene	**310**		100	36	ug/Kg	☼	02/25/13 11:29	02/26/13 22:01	4
1-Methylnaphthalene	**250**		200	22	ug/Kg	☼	02/25/13 11:29	02/26/13 22:01	4
2-Methylnaphthalene	**280**	**J**	200	36	ug/Kg	☼	02/25/13 11:29	02/26/13 22:01	4
Naphthalene	**190**	**J**	200	22	ug/Kg	☼	02/25/13 11:29	02/26/13 22:01	4
Phenanthrene	**300**		41	20	ug/Kg	☼	02/25/13 11:29	02/26/13 22:01	4
Pyrene	**400**		100	19	ug/Kg	☼	02/25/13 11:29	02/26/13 22:01	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*102*		*30 - 130*	*02/25/13 11:29*	*02/26/13 22:01*	*4*

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87655-2
SDG: 68087655-2

Client Sample ID: CV0667B-CS-SP

Date Collected: 02/19/13 11:12
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-36
Matrix: Solid
Percent Solids: 76.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	02/25/13 11:29	02/26/13 22:16	4
Acenaphthylene	**48**	**J**	200	25	ug/Kg	☼	02/25/13 11:29	02/26/13 22:16	4
Anthracene	**78**		43	21	ug/Kg	☼	02/25/13 11:29	02/26/13 22:16	4
Benzo[a]anthracene	**300**		41	20	ug/Kg	☼	02/25/13 11:29	02/26/13 22:16	4
Benzo[a]pyrene	**170**		53	26	ug/Kg	☼	02/25/13 11:29	02/26/13 22:16	4
Benzo[b]fluoranthene	**320**		62	31	ug/Kg	☼	02/25/13 11:29	02/26/13 22:16	4
Benzo[g,h,i]perylene	**160**		100	22	ug/Kg	☼	02/25/13 11:29	02/26/13 22:16	4
Benzo[k]fluoranthene	**120**		41	18	ug/Kg	☼	02/25/13 11:29	02/26/13 22:16	4
Chrysene	**300**		46	23	ug/Kg	☼	02/25/13 11:29	02/26/13 22:16	4
Dibenz(a,h)anthracene	**83**	**J**	100	21	ug/Kg	☼	02/25/13 11:29	02/26/13 22:16	4
Fluoranthene	**320**		100	20	ug/Kg	☼	02/25/13 11:29	02/26/13 22:16	4
Fluorene	**28**	**J**	100	21	ug/Kg	☼	02/25/13 11:29	02/26/13 22:16	4
Indeno[1,2,3-cd]pyrene	**140**		100	36	ug/Kg	☼	02/25/13 11:29	02/26/13 22:16	4
1-Methylnaphthalene	**180**	**J**	200	22	ug/Kg	☼	02/25/13 11:29	02/26/13 22:16	4
2-Methylnaphthalene	**200**	**J**	200	36	ug/Kg	☼	02/25/13 11:29	02/26/13 22:16	4
Naphthalene	**150**	**J**	200	22	ug/Kg	☼	02/25/13 11:29	02/26/13 22:16	4
Phenanthrene	**330**		41	20	ug/Kg	☼	02/25/13 11:29	02/26/13 22:16	4
Pyrene	**260**		100	19	ug/Kg	☼	02/25/13 11:29	02/26/13 22:16	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*30 - 130*	*02/25/13 11:29*	*02/26/13 22:16*	*4*

Client Sample ID: CV0276A-CS-SP

Date Collected: 02/19/13 11:40
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-37
Matrix: Solid
Percent Solids: 72.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	☼	02/25/13 14:06	02/27/13 17:28	1
Acenaphthylene	**12**	**J**	55	6.8	ug/Kg	☼	02/25/13 14:06	02/27/13 17:28	1
Anthracene	**19**		11	5.7	ug/Kg	☼	02/25/13 14:06	02/27/13 17:28	1
Benzo[a]anthracene	**100**		11	5.3	ug/Kg	☼	02/25/13 14:06	02/27/13 17:28	1
Benzo[a]pyrene	**89**	**J**	14	7.1	ug/Kg	☼	02/25/13 14:06	02/27/13 17:28	1
Benzo[b]fluoranthene	**180**		17	8.3	ug/Kg	☼	02/25/13 14:06	02/27/13 17:28	1
Benzo[g,h,i]perylene	**81**		27	6.0	ug/Kg	☼	02/25/13 14:06	02/27/13 17:28	1
Benzo[k]fluoranthene	**71**		11	4.9	ug/Kg	☼	02/25/13 14:06	02/27/13 17:28	1
Chrysene	**130**	**J**	12	6.2	ug/Kg	☼	02/25/13 14:06	02/27/13 17:28	1
Dibenz(a,h)anthracene	**26**	**J**	27	5.6	ug/Kg	☼	02/25/13 14:06	02/27/13 17:28	1
Fluoranthene	**160**		27	5.5	ug/Kg	☼	02/25/13 14:06	02/27/13 17:28	1
Fluorene	**11**	**J**	27	5.6	ug/Kg	☼	02/25/13 14:06	02/27/13 17:28	1
Indeno[1,2,3-cd]pyrene	**67**		27	9.7	ug/Kg	☼	02/25/13 14:06	02/27/13 17:28	1
1-Methylnaphthalene	**79**		55	6.0	ug/Kg	☼	02/25/13 14:06	02/27/13 17:28	1
2-Methylnaphthalene	**110**		55	9.7	ug/Kg	☼	02/25/13 14:06	02/27/13 17:28	1
Naphthalene	**98**		55	6.0	ug/Kg	☼	02/25/13 14:06	02/27/13 17:28	1
Phenanthrene	**150**		11	5.3	ug/Kg	☼	02/25/13 14:06	02/27/13 17:28	1
Pyrene	**130**		27	5.1	ug/Kg	☼	02/25/13 14:06	02/27/13 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*30 - 130*	*02/25/13 14:06*	*02/27/13 17:28*	*1*

Client Sample ID: CV0276B-CS-SP

Lab Sample ID: 680-87655-38

Date Collected: 02/19/13 11:51
Matrix: Solid
Date Received: 02/21/13 09:20
Percent Solids: 70.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	02/25/13 14:06	02/27/13 17:47	1
Acenaphthylene	**9.3**	**J**	55	6.9	ug/Kg	☼	02/25/13 14:06	02/27/13 17:47	1
Anthracene	**17**		12	5.8	ug/Kg	☼	02/25/13 14:06	02/27/13 17:47	1
Benzo[a]anthracene	**81**		11	5.4	ug/Kg	☼	02/25/13 14:06	02/27/13 17:47	1
Benzo[a]pyrene	**70**	**J**	14	7.2	ug/Kg	☼	02/25/13 14:06	02/27/13 17:47	1
Benzo[b]fluoranthene	**130**		17	8.4	ug/Kg	☼	02/25/13 14:06	02/27/13 17:47	1
Benzo[g,h,i]perylene	**61**		28	6.1	ug/Kg	☼	02/25/13 14:06	02/27/13 17:47	1
Benzo[k]fluoranthene	**48**		11	5.0	ug/Kg	☼	02/25/13 14:06	02/27/13 17:47	1
Chrysene	**130**	**J**	12	6.2	ug/Kg	☼	02/25/13 14:06	02/27/13 17:47	1
Dibenz(a,h)anthracene	**23**	**J**	28	5.7	ug/Kg	☼	02/25/13 14:06	02/27/13 17:47	1
Fluoranthene	**140**		28	5.5	ug/Kg	☼	02/25/13 14:06	02/27/13 17:47	1
Fluorene	**16**	**J**	28	5.7	ug/Kg	☼	02/25/13 14:06	02/27/13 17:47	1
Indeno[1,2,3-cd]pyrene	**49**		28	9.8	ug/Kg	☼	02/25/13 14:06	02/27/13 17:47	1
1-Methylnaphthalene	**71**		55	6.1	ug/Kg	☼	02/25/13 14:06	02/27/13 17:47	1
2-Methylnaphthalene	**86**		55	9.8	ug/Kg	☼	02/25/13 14:06	02/27/13 17:47	1
Naphthalene	**100**		55	6.1	ug/Kg	☼	02/25/13 14:06	02/27/13 17:47	1
Phenanthrene	**130**		11	5.4	ug/Kg	☼	02/25/13 14:06	02/27/13 17:47	1
Pyrene	**110**		28	5.1	ug/Kg	☼	02/25/13 14:06	02/27/13 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*30 - 130*	*02/25/13 14:06*	*02/27/13 17:47*	*1*

Client Sample ID: FM0161IIII-CS

Lab Sample ID: 680-87655-39

Date Collected: 02/19/13 12:49
Matrix: Solid
Date Received: 02/21/13 09:20
Percent Solids: 76.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	02/25/13 14:06	02/27/13 18:05	1
Acenaphthylene	**31**	**J**	51	6.4	ug/Kg	☼	02/25/13 14:06	02/27/13 18:05	1
Anthracene	**23**		11	5.4	ug/Kg	☼	02/25/13 14:06	02/27/13 18:05	1
Benzo[a]anthracene	**150**		10	5.0	ug/Kg	☼	02/25/13 14:06	02/27/13 18:05	1
Benzo[a]pyrene	**160**	**J**	13	6.7	ug/Kg	☼	02/25/13 14:06	02/27/13 18:05	1
Benzo[b]fluoranthene	**270**		16	7.8	ug/Kg	☼	02/25/13 14:06	02/27/13 18:05	1
Benzo[g,h,i]perylene	**120**		26	5.6	ug/Kg	☼	02/25/13 14:06	02/27/13 18:05	1
Benzo[k]fluoranthene	**120**		10	4.6	ug/Kg	☼	02/25/13 14:06	02/27/13 18:05	1
Chrysene	**200**	**J**	12	5.8	ug/Kg	☼	02/25/13 14:06	02/27/13 18:05	1
Dibenz(a,h)anthracene	**40**		26	5.3	ug/Kg	☼	02/25/13 14:06	02/27/13 18:05	1
Fluoranthene	**360**		26	5.1	ug/Kg	☼	02/25/13 14:06	02/27/13 18:05	1
Fluorene	**14**	**J**	26	5.3	ug/Kg	☼	02/25/13 14:06	02/27/13 18:05	1
Indeno[1,2,3-cd]pyrene	**94**		26	9.1	ug/Kg	☼	02/25/13 14:06	02/27/13 18:05	1
1-Methylnaphthalene	**63**		51	5.6	ug/Kg	☼	02/25/13 14:06	02/27/13 18:05	1
2-Methylnaphthalene	**59**		51	9.1	ug/Kg	☼	02/25/13 14:06	02/27/13 18:05	1
Naphthalene	**59**		51	5.6	ug/Kg	☼	02/25/13 14:06	02/27/13 18:05	1
Phenanthrene	**190**		10	5.0	ug/Kg	☼	02/25/13 14:06	02/27/13 18:05	1
Pyrene	**310**		26	4.8	ug/Kg	☼	02/25/13 14:06	02/27/13 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*30 - 130*	*02/25/13 14:06*	*02/27/13 18:05*	*1*

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87655-2
SDG: 68087655-2

Client Sample ID: FM0161JJJJ-CS
Date Collected: 02/19/13 12:53
Date Received: 02/21/13 09:20

Lab Sample ID: 680-87655-40
Matrix: Solid
Percent Solids: 79.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	02/25/13 14:06	02/27/13 18:23	1
Acenaphthylene	**17**	**J**	49	6.2	ug/Kg	☼	02/25/13 14:06	02/27/13 18:23	1
Anthracene	**51**		10	5.2	ug/Kg	☼	02/25/13 14:06	02/27/13 18:23	1
Benzo[a]anthracene	**260**		9.9	4.8	ug/Kg	☼	02/25/13 14:06	02/27/13 18:23	1
Benzo[a]pyrene	**210**	J	13	6.4	ug/Kg	☼	02/25/13 14:06	02/27/13 18:23	1
Benzo[b]fluoranthene	**320**		15	7.5	ug/Kg	☼	02/25/13 14:06	02/27/13 18:23	1
Benzo[g,h,i]perylene	**140**		25	5.4	ug/Kg	☼	02/25/13 14:06	02/27/13 18:23	1
Benzo[k]fluoranthene	**160**		9.9	4.4	ug/Kg	☼	02/25/13 14:06	02/27/13 18:23	1
Chrysene	**270**	J	11	5.5	ug/Kg	☼	02/25/13 14:06	02/27/13 18:23	1
Dibenz(a,h)anthracene	**37**		25	5.1	ug/Kg	☼	02/25/13 14:06	02/27/13 18:23	1
Fluoranthene	**480**		25	4.9	ug/Kg	☼	02/25/13 14:06	02/27/13 18:23	1
Fluorene	**26**		25	5.1	ug/Kg	☼	02/25/13 14:06	02/27/13 18:23	1
Indeno[1,2,3-cd]pyrene	**130**		25	8.8	ug/Kg	☼	02/25/13 14:06	02/27/13 18:23	1
1-Methylnaphthalene	**52**		49	5.4	ug/Kg	☼	02/25/13 14:06	02/27/13 18:23	1
2-Methylnaphthalene	**63**		49	8.8	ug/Kg	☼	02/25/13 14:06	02/27/13 18:23	1
Naphthalene	**67**		49	5.4	ug/Kg	☼	02/25/13 14:06	02/27/13 18:23	1
Phenanthrene	**270**		9.9	4.8	ug/Kg	☼	02/25/13 14:06	02/27/13 18:23	1
Pyrene	**440**		25	4.6	ug/Kg	☼	02/25/13 14:06	02/27/13 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*30 - 130*	*02/25/13 14:06*	*02/27/13 18:23*	*1*

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)